

KD-Validated Anti-CSNK1A1 Rabbit Monoclonal Antibody
Rabbit monoclonal Antibody
Catalog # AGI2198**Specification****KD-Validated Anti-CSNK1A1 Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC
Primary Accession	P48729
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 39 kDa, observed, 34 kDa kDa
Gene Name	CSNK1A1
Aliases	CSNK1A1; Casein Kinase 1 Alpha 1; CK1; CK1a; CKIa; Casein Kinase I Isoform Alpha; Clock Regulator Kinase; EC 2.7.11.1; CKI-Alpha; CK1alpha; CKIalpha; Epididymis Secretory Sperm Binding Protein Li 77p; Down-Regulated In Lung Cancer; Casein Kinase 1, Alpha; HEL-S-77p; HLCDDGP1; PRO2975
Immunogen	A synthesized peptide derived from human Casein Kinase 1 alpha

KD-Validated Anti-CSNK1A1 Rabbit Monoclonal Antibody - Additional Information

Gene ID	1452
Other Names	
Casein kinase I isoform alpha, CKI-alpha, 2.7.11.1, CK1, CSNK1A1	

KD-Validated Anti-CSNK1A1 Rabbit Monoclonal Antibody - Protein Information**Name** CSNK1A1**Function**

Casein kinases are operationally defined by their preferential utilization of acidic proteins such as caseins as substrates (PubMed: [11955436](http://www.uniprot.org/citations/11955436), PubMed: [1409656](http://www.uniprot.org/citations/1409656), PubMed: [18305108](http://www.uniprot.org/citations/18305108), PubMed: [23902688](http://www.uniprot.org/citations/23902688)). It can phosphorylate a large number of proteins (PubMed: [11955436](http://www.uniprot.org/citations/11955436), PubMed: [1409656](http://www.uniprot.org/citations/1409656), PubMed: [18305108](http://www.uniprot.org/citations/18305108), PubMed: [23902688](http://www.uniprot.org/citations/23902688)). Participates in Wnt signaling (PubMed: [11955436](http://www.uniprot.org/citations/11955436)). Phosphorylates CTNNB1 at 'Ser-45' (PubMed: [11955436](http://www.uniprot.org/citations/11955436)). May

phosphorylate PER1 and PER2 (By similarity). May play a role in segregating chromosomes during mitosis (PubMed:1409656). May play a role in keratin cytoskeleton disassembly and thereby, it may regulate epithelial cell migration (PubMed:23902688). Acts as a positive regulator of mTORC1 and mTORC2 signaling in response to nutrients by mediating phosphorylation of DEPTOR inhibitor (PubMed:22017875, PubMed:22017877). Acts as an inhibitor of NLRP3 inflammasome assembly by mediating phosphorylation of NLRP3 (By similarity).

Cellular Location

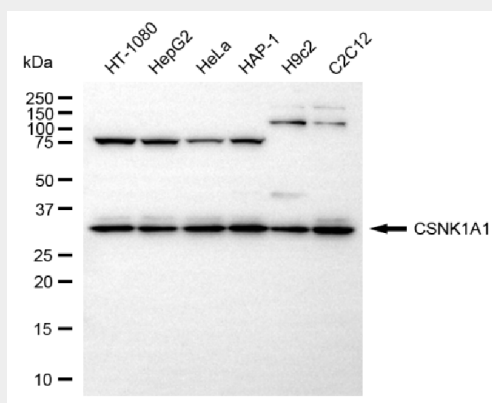
Cytoplasm. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Chromosome, centromere, kinetochore. Nucleus speckle. Cytoplasm, cytoskeleton, cilium basal body {ECO:0000250|UniProtKB:Q8BK63}. Cytoplasm, cytoskeleton, spindle {ECO:0000250|UniProtKB:Q8BK63}. Note=Localizes to the centrosome in interphase cells, and to kinetochore fibers during mitosis. Also recruited to the keratin cytoskeleton (PubMed:23902688)

KD-Validated Anti-CSNK1A1 Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

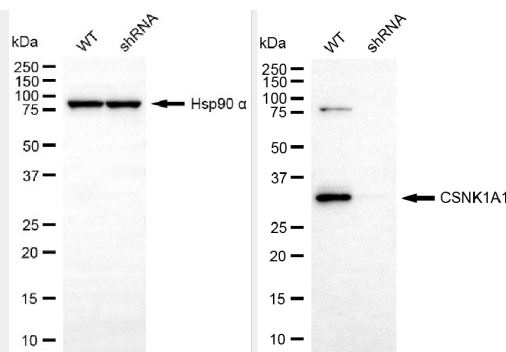
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

KD-Validated Anti-CSNK1A1 Rabbit Monoclonal Antibody - Images



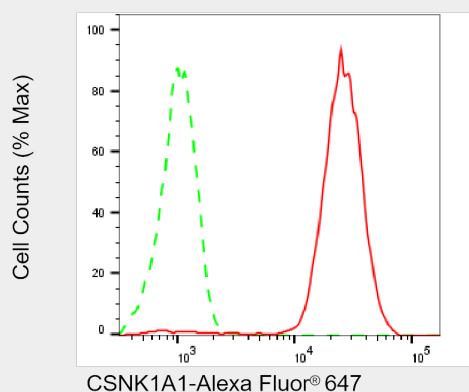
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Western blotting analysis using anti-CSNK1A1 antibody (Cat#AGI2198). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-CSNK1A1 antibody (Cat#AGI2198, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



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Western blotting analysis using anti-CSNK1A1 antibody (Cat#AGI2198). CSNK1A1 expression in wild-type (WT) and CSNK1A1 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-CSNK1A1 antibody (Cat#AGI2198, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



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Flow cytometric analysis of CSNK1A1 expression in C2C12 cells using anti-CSNK1A1 antibody (Cat#AGI2198, 1:2,000). Green, isotype control; red, CSNK1A1.